

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D130-1048 REV. A AND INSTRUCTIONS FOR
CONTINUED AIRWORTHINESS ICA-D130-1048 REV. 0 OR LATER APPROVED REVISION

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to introduce the D130-1048-711/-713 Landing Gear Assemblies and provide instructions for installation and maintenance. The D130-1048-711/-713 Landing Gear Assemblies consist of D130-1048-011/-012 Skid tubes, D130-1048-101 Fwd Crosstube, and D130-1048-201 Aft Crosstube all factory assembled as a complete unit. The D130-1048-711 Landing Gear Assembly includes D130-1048-053 Midtube Wearplates for enhanced skid tube protection. The D130-1048-713 Landing Gear Assembly offers basic wearplate protection.

All components of the D130-1048-711/-713 Landing Gear Assemblies are as defined in Section 4.0 of this Service Instruction. For convenience, only the last three digits of the assembly number are shown in the top row of the table. The quantity of each component included in the D130-1048-711 Landing Gear Assembly, for example, are shown in the column labeled -711.

2.0 INSTALLATION

- 2.1 Remove and retain the fairings and footsteps from the existing landing gear per the aircraft maintenance manual.
- 2.2 Remove the existing landing gear from the aircraft per the aircraft maintenance manual. Retain the clamps and bearings which secured the crosstubes to the aircraft structure if suitable for continued service.
- 2.3 Install the aircraft grounding straps to the forward crosstube by following step 3.2.5 of IIN-D130-1048.
- 2.4 Install the aircraft grounding straps to the aft crosstube by following step 3.3.4 of IIN-D130-1048.
- 2.5 Install the landing gear to the aircraft by following steps 3.2.6 to 3.2.10 of IIN-D130-1048.
- 2.6 Reinstall the fairings and footsteps to the landing gear per the aircraft maintenance manual.
- 2.7 Update aircraft logbook to indicate installation of the D130-1048-711/-713 Landing Gear Assembly, as applicable. Update aircraft weight and balance using the data provided in Section 5.0 of this Service Instruction.

3.0 MAINTENANCE

Maintain the D130-1048-011/-012 Skid tubes, D130-1048-101 Fwd Crosstube, D130-1048-201 Aft Crosstube, and D130-1048-053 Midtube Wearplates in accordance with ICA-D130-1048.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: _____
C. PROVENCAL (DE # 03)

DATE: _____
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A	NEW ISSUE	ZF	18.10.24
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DRAWN	ZF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MW	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9811	SHEET 1 OF 2
APPROVED	NO	TITLE	SCALE
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4.0 PARTS LIST

QTY -711	QTY -713	P/N	DESCRIPTION
X		D130-1048-711	LANDING GEAR ASSEMBLY WITH MIDTHUBE WEARPLATES
	X	D130-1048-713	LANDING GEAR ASSEMBLY WITH BASIC WEARPLATES
1	1	D130-1048-011	SKIDTHUBE INSTL, LH (EC130)
1	1	D130-1048-012	SKIDTHUBE INSTL, RH (EC130)
1	1	D130-1048-101	FWD X-TUBE ASSY (EC130)
1	1	D130-1048-201	AFT X-TUBE ASSY (EC130)
1		D130-1048-053	MIDTHUBE WEARPLATE KIT

5.0 WEIGHT AND BALANCE

The following weight and balance information is the for the Dart installations only. The weight and balance of all parts removed from the aircraft is the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D130-1048-711	110.9 lb	+/- 0 in	+/- 0 in-lb	125.6 in	13929 in-lb
LANDING GEAR ASSEMBLY WITH MIDTHUBE WEARPLATES	50.3 kg	+/- 0 m	+/- 0 m-kg	3.19 m	160.5 m-kg
D130-1048-713	102.9 lb	+/- 0 in	+/- 0 in-lb	125.6 in	12924 in-lb
LANDING GEAR ASSEMBLY WITH BASIC WEARPLATES	46.7 kg	+/- 0 m	+/- 0 m-kg	3.19 m	148.9 m-kg

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DRAWN	ZF		
CHECKED	MW	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9811	SHEET 2 OF 2
APPROVED	NO	TITLE	SCALE
DE APPR.	CP	LANDING GEAR ASSEMBLY NTS	
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